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PATENT

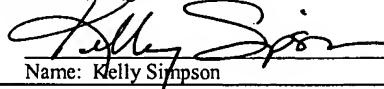
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Scott Watson, et al. Examiner: to be assigned
Serial No. 10/646,192 Group Art Unit: to be assigned
Filed: August 21, 2003 Docket No. 54317-030700
Title: DIGITAL HOME MOVIE LIBRARY

CERTIFICATE OF MAILING UNDER 37 CFR 1.8

Date of Mailing: August 25, 2004

I hereby certify that this correspondence and identified enclosures are being deposited with the United States Postal Service, first class mail, postage prepaid, under 37 CFR 1.8 on the date indicated, and addressed to Dwayne D. Bost, Special Program Examiner, Technology Center 2600, Communications, Commissioner for Patents, Post Office Box 1450, Alexandria, Virginia 22313-1450.


Name: Kelly Simpson

**REQUEST FOR RECONSIDERATION OF DECISION
ON PETITION TO MAKE SPECIAL**

Dwayne D. Bost
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Sir/Madam:

Applicants submit this Request for Reconsideration in response to the Decision on Petition to Make Special (petition denied), mailed on August 2, 2004. Applicant submits the following in further support of the Petition, as required under MPEP § 708.02 (C) and (E):

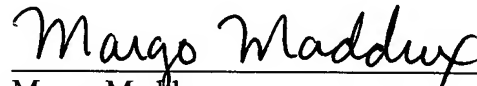
- 1) A search was conducted by a professional searcher in which the following class/subclasses were searched: Class 386 (Television Signal Processing for Dynamic Recording or Reproducing), Subclasses 45; 46; 63, 68, 74, 83; 125; 126; and Class 725 (Interactive Video Distribution), Subclasses 1, 29, 31, 37, 39 through 55. Examiner C. Grant in Class 386 was also consulted; and

- 2) A discussion of the references is included, which discussion points out, with the particularity required by 37 CFR 1.111 (b) and (c), how the claimed subject matter is patentable over the references (copies of all references previously submitted with original Petition to Make Special).

Applicants respectfully submit that all of the requirements of MPEP § 708.02 have been met, and that the Petition is in now in order for grant. Accordingly, it is respectfully requested that the application be accorded special status under 37 CFR 1.102.

Respectfully submitted,

Date: August 25, 2004



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categories, including a currently displayed category. Each of the plurality of categories has a plurality of items. The display also has a marquee area on a second portion of the display, which displays items of the currently displayed category. The system further comprises a scrolling mechanism for scrolling through items of each category of the plurality of categories. The marquee area is updated by the scrolling mechanism to display the corresponding items in each category. The scrolling mechanism also indicates a position of a currently displayed item of a currently displayed category by updating the category area. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

39. 6,038,367 Abecassis

Abecassis discloses a system and method capable of playing a video, the method comprising the steps of, and the system comprising retrieving, processing, random accessing, and buffering device for retrieving a first set of content preferences and a second set of content preferences, each including a level of explicitness in each of a plurality of content categories; comparing the first set of content preferences with the second set of content preferences and adopting a least explicit level in each content category; retrieving segment information defining, responsive to at least a level of explicitness in at least one of a plurality of content categories, at least one segment of a video; and playing, responsive to the comparing and the adopting, responsive to the segment information, and the random accessing and buffering device, a seamless version of, from within, and less in length than the length of, the video. Alternatively or additionally, the method comprises the step of, and the system comprises communicating device for, requesting the video from a remote video provider; providing the remote video provider a set of content preferences that is responsive to the comparing and the adopting; and receiving from the remote video provider the seamless version of the video. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

40. 6,049,652 Yuen et al.

Yuen et al. discloses encoded video recorder/player timer preprogramming information listed in a television calendar which allows a timer preprogramming feature on a video cassette recorder VCR to be programmed using a compressed coded indication of as few as 1 to 8 digits, which are decoded by a decoder built into either the video cassette recorder or a remote controller to convert the compressed coded indication into channel, date, time and length information. The channel, date, time and length information is communicated to a VCR and used to automatically activate the VCR to record a given television program with the corresponding channel, date, time and length. Alternatively, the channel, date, time and length information is decoded directly in a remote controller and only start record, stop record and channel selection commands are sent to the VCR at the appropriate times. An encoder, which may be implemented on a computer, is used to generate the compressed coded indications. The compressed coded indications associated with each television program can be printed in a television program calendar in

advance and used with a VCR or remote controller with the decoding means. Algorithms for decoding the compressed codes can be a function of time to ensure security of the decoding method. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

41. 6,052,145 MaCrae et al.

MaCrae et al. discloses a system for providing programming and other information to television viewers for enabling them to control their respective television receivers. A central broadcasting computer and associated memory gathers and stores the information to be provided, and broadcasts it in a viewing area. An information receiver positioned in close proximity to the television is linked to said central broadcasting computer to receive signals representing said information from said central broadcasting computer. The received signals are converted video displays viewable on the television receiver's screen, and the user can use the displays to control the television receiver and other devices, such as video cassette recorders, used with the television receiver. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

42. 6,052,715 Fukui et al.

Fukui et al. discloses an information terminal which transmits small amount data such as a command to a Web server on the internet to an asymmetric router via an interactive radio network. The asymmetric router transmits the command to the Web server via the internet. The asymmetric router transmits large amount data (for example, HTML formatted browser data) from the Web server to a data superimposing broadcast apparatus. The data superimposing broadcast apparatus determines a scheduled time of broadcasting according to a data amount. The scheduled time is transmitted to the information terminal via the asymmetric router and the interactive radio network. When the scheduled time comes, the large amount data is superimposed on an empty portion of a television signal, and is broadcasted. The information terminal carries out a predetermined processing operation whereby a broadcast receiving circuit is turned on, and the television signal on which the large amount data has been superimposed is received. The received data then can be displayed in a display device and the like. Therefore, even in a portable information terminal, it is possible to provide an interactive communication system which can transmit large amount data at a high speed. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

43. 6,057,890 Virden et al.

Virden et al. discloses an interface for a television system whereby a user, while viewing a television program, can upon demand via remote control view information in a banner overlaid on the currently displayed program. The banner may contain descriptions of programs being aired currently on all available channels, and descriptions of programs that are scheduled for future broadcasts on all available channels. The user can jump through the channel timeslots by manipulating keys on the keypad or remote control to input the number of hours to jump ahead or back. Program scheduling is provided by an electronic program guide that is received with the television signals and stored in the television receiver. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

44. 6,058,288 Reed et al.

Reed et al discloses an entertainment and passenger service system for use in aircrafts and other passenger vehicles. Video monitors are provided at the passenger seats which are connected to entertainment sources located at an head end location via a direct, individual, point to point signal over a star network. A electronic switching unit is provided to connect the entertainment sources to the video monitors. A communications control unit provides communication connections between the passenger seat and the entertainment sources. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

45. 6,067,564 Urakoshi

Urakoshi discloses a pay program broadcasting receiver apparatus that receives pay programs and has a device that stores a limit total viewing charge for a specified period of time, a device that stores a total viewing charge within a predetermined period of time, a display device, and a signal generation device that, in response to an instruction by a user, generates a signal for simultaneously displaying at least the limit total viewing charge for a specified period of time and the total viewing charge within a predetermined period of time, wherein an output from the signal generation device is displayed on the display device. As a result, data relating to charges for pay broadcast programs is appropriately provided to users. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

46. 6,075,526 Rothmuller

Rothmuller discloses a method and apparatus for searching a program guide comprising program information for a plurality of different program sources. The program information includes the titles of the programs, the channel on which each program is to be shown, and the time at which

each program is to be shown. The viewer first enters the title of a desired program. The program guide is then reviewed so as to identify each occurrence of the title of the desired program. If the desired program is contained in the guide, the time and channel associated with each identified occurrence of the program is displayed. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

47. 6,078,560 Kashiwagi

Kashiwagi discloses a high-density optical recording medium and an optical recording/reproducing apparatus using short wavelength blue laser beams to perform recording and reproducing. A 0.6-mm thick light-transmitting layer is formed on an information-recording face of the recording medium. A laser beam having a wavelength λ of 390 nm to 440 nm is transmitted via a lens system having an NA of 0.6 to 0.72, through the light-transmitting layer. The optical recording medium allows recording and/or reproducing to be performed by use of the laser beam. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

48. 6,091,883 Artigalas et al.

Artigalas et al. discloses a recording and reading apparatus constituting a kind of video reservoir in the home of the consumer. Thanks to a large-capacity storing technique with suitable technical device, broadcasters transmit numerous programs via specific channels and the consumer may control the content of his reservoir (by recording, reading and erasing programs). The invention is applicable to on-demand video in the consumer's home with a video reservoir constituting a video-library that is regularly updated by broadcasters and/or by the consumer himself. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

49. 6,111,612 Ozkan et al.

Ozkan et al. discloses packetized video program information used in video processing and storage medium formats including program related text messages. A decoder decodes packetized video program information including program related text messages. The decoder determines a broadcast programming time segment associated with a desired program related text message and identifies program related text message data occurring in the determined broadcast programming time segment. The decoder acquires the identified program related text message data and formats the text message data for display. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie

data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

50. 6,115,074 Ozkan et al.

Ozkan et al. discloses channel map information including program map table information in packetized program information used in video processing and storage medium formats. In a digital video system for decoding an MPEG compatible datastream containing MPEG compatible program map table information, channel map information is identified and assembled. The channel map information identifies individual packetized datastreams that constitute a broadcast program. The channel map information associates a broadcast channel with packet identifiers used to identify individual packetized datastreams that constitute a program transmitted in the broadcast channel. The channel map information replicates information conveyed in the MPEG compatible program map table information. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

51. 6,130,898 Kostreski et al.

Kostreski et al. discloses a public wireless packet data network combined with a broadband digital broadcast network. In the preferred embodiment, the broadcast network utilizes multiple transmitters at separately located sites simultaneously broadcasting the same multi-channel, multi-program signal. Broadcast waves from the transmitters propagate throughout substantially overlapping portions of the service area. Customer premises receiving systems include a receiving antenna and one or more digital entertainment terminals. The terminal includes a channel selector and digital receiver for capturing a digital transport stream from a selected channel. A processor converts selected program information from the transport stream for presentation, e.g. via a television set. The terminal also includes a CPU controlling the operation of the channel selector and the processor in response to user inputs. The CPU also communicates signaling information for interactive services via an RF packet data modem included in the terminal and the public wireless packet data network. In addition to the signaling for interactive services, the packet data network provides transport for data communications between other data devices. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

52. 6,147,714 Terasawa et al.

Terasawa et al. discloses a method whereby a desired program is selected speedily and reliably from a plurality of programs. Reduced-sized still pictures of typical frames of programs to be broadcast on the respective channels are divided by program category and displayed as an electronic program guide. A cursor is shifted in the left and right directions to select a desired category. When an instruction is given to shift the cursor in the upward and downward

directions, the still pictures of the selected category are scrolled. When the picture is determined by a selecting operation, its program is received. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

53. 6,151,632 Chaddha et al.

Chaddha et al. discloses a method and apparatus for delivering real-time multimedia information to clients via a distributed network. The method and apparatus includes a LiveStation for encoding the real-time multimedia information into a number of different bandwidth points, and associated indexes, each bandwidth point for transmission over data channels of a particular bandwidth. The bandwidth points and indexes are provided to a recaster server to push the bandwidth points and indexes in parallel to secondary servers. The secondary servers then provide clients with compressed multimedia information according to the type of data channel used for connection. Parallel transmission of multiple bandwidth points and indexes allows the secondary servers to dynamically switch bandwidth points if data channels to clients change during transmission. Protocol between the LiveStation and a Recaster server, and between Recaster servers and secondary servers, is provided to allow configuration and transmission of real-time multimedia information to be controlled over a computer network from a single point. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

54. 6,154,767 Althschuler et al

Althschuler et al discloses building resource (e.g., Internet content) and attribute transition probability models and using such models for pre-fetching resources, editing resource link topology, building resource link topology templates, and collaborative filtering. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

55. 6,157,411 Williams et al.

Williams et al. discloses a method and apparatus for compiling a repository of entertainment system data, the system receiving entertainment system data, including television program data and software application data, from at least a subset of a plurality of sources. The entertainment system data is then stored in a unitary format for subsequent access by a user. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

56. 6,167,188 Young et al.

Young et al. discloses screen (10) for a user interface of a television schedule system and process consists of an array (24) of irregular cells (26), which vary in length, corresponding to different television program lengths of one half hour to one-and-one half hours or more. The array is arranged as three columns (28) of one-half hour in duration, and twelve rows (30) of program listings. Some of the program listings overlap two or more of the columns (28) because of their length. Because of the widely varying length of the cells (26), if a conventional cursor used to select a cell location were to simply step from one cell to another, the result would be abrupt changes in the screen (10) as the cursor moved from a cell (26) of several hours length to an adjacent cell in the same row. An effective way of taming the motion is to assume that behind every array (24) is an underlying array of regular cells. By restricting cursor movements to the regular cells, abrupt screen changes will be avoided. With the cursor (32), the entire cell (26) is 3-D highlighted, using a conventional offset shadow (34). The offset shadow (34) is a black bar that underlines the entire cell and wraps around the right edge of the cell. To tag the underlying position--which defines where the cursor (32) is and thus, where it will move next--portions (36) of the black bar outside the current underlying position are segmented, while the current position is painted solid. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

57. 6,181,335 Hendricks et al.

Hendricks et al. discloses an apparatus for upgrading a viewer interface for a television program delivery system (200). The invention relates to methods and devices for viewer pathways to television programs and services. Specifically, the apparatus involves hardware and software used in conjunction with the interface and a television at the viewer home to create a user friendly menu based approach to accessing programs and services. The apparatus is particularly useful in a program delivery system (200) with hundreds of programs and a data signal carrying program information. The disclosure describes menu generation and menu selection of television programs. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

58. 6,181,867 Kenner

Kenner discloses a video clip storage and retrieval system whereby video clips, stored locally and/or at a more remote location, can be requested and retrieved by a user at the user's multimedia terminal. When the user requests a desired video clip, the request is processed by a primary index manager ("PIM") via a Local Search and Retrieval Unit ("SRU"). Before the message is communicated to the PIM, the local SRU checks its own storage to see whether the requested video clips are available locally. If some of the video clips are local, the local SRU still forwards the request to the PIM so that the PIM may determine specific video clip usage.

The PIM determines the extended SRU where the audio-visual data is stored and passes this information to a Data Sequencing Interface ("DSI"). The DSI collects the video clips and downloads the clips to the user's terminal. The user may then view, copy, or print the video clip as desired. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

59. 6,182,287 Schneidewend et al.

Schneidewend et al. discloses a video decoder providing an interface enabling a user to create, manage and maintain favorite service lists for facilitating user navigation through a complex array of multimedia services. The on-screen display interface system generates an abbreviated menu list of favorite multimedia services available from both local and remote sources to enable navigation through user selected favorite services. A database associates individual services and corresponding menu items in the favorite services menu with their respective sources and supports service selection, tuning and acquisition. Additional abbreviated lists of favorite multimedia services, comprising sub-sets of parent service lists, are also hierarchically displayed in response to User command in order to facilitate and focus a search for a desired service. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

60. 6,192,340 Abecassis

Abecassis discloses an apparatus capable of, and a method of, playing audio, the apparatus comprising communicating, processing, and playing means for, and the method comprising the steps of: communicating a user's information preferences to an information provider; receiving, from the information provider, informational items that are responsive to the user's information references; interleaving and sequencing, for the user, a playing of the received informational items with a playing of a plurality of musical items included in an audio library of the user; and playing, for the user and responsive to the interleaving and sequencing, the received informational items within a playing of the plurality of musical items; and wherein the playing comprises a voice synthesizing of an at least one of informational item; wherein the playing is responsive to a schedule preferences of the user; wherein a verified apparent listening of a playing of an informational item is associated with a credit; and/or wherein a user's reception of a communication unrelated to the informational items is integrated within a playing of musical items. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

61. 6,202,008 Beckert et al.

Beckert et al. discloses a vehicle computer system having a housing sized to be mounted in a vehicle dashboard or other appropriate location. A computer is mounted within the housing and executes an open platform, multi-tasking operating system. The computer runs multiple applications on the operating system, including both vehicle-related applications (e.g., vehicle security application, vehicle diagnostics application, communications application, etc.) and non-vehicle-related applications (e.g., entertainment application, word processing, etc.). The computer system has an Internet wireless link to provide access to the Internet. One or more of the applications may utilize the link to access content on the Internet. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

62. 6,219,839 B1 Sampsell

Sampsell discloses a system for providing an on-screen electronic resource guide (ERG) including an audio/visual display device; plural peripheral devices, each having an active mode and an inactive mode; an interface located between said audio/visual device and said peripheral devices; and an ERG generator for providing an ERG display for displaying programming available to said audio/visual display device from said peripheral devices when such devices are in their active mode. A method for providing an on-screen electronic resource guide (ERG) in an audio/visual display device having plural peripheral devices connected thereto over an interface, wherein each peripheral device has an active mode and an inactive mode includes generating an ERG display for displaying programming available to the audio/visual display device from said peripheral devices when such devices are in their active mode, and controlling a peripheral device from the ERG display. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

63. 6,229,895 B1 Son et al.

Son et al. discloses a remote server receiving video programming in a first encrypted form and stores the video programming. After the remote server receives a request from a subscriber station for transmission of the video programming, the remote server decrypts the video programming, re-encrypts the video programming into a second encrypted form, and then transmits the video programming to the subscriber station. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

64. 6,233,389 Barton et al.

Barton et al. discloses a multimedia time warping system. The invention allows the user to store selected television broadcast programs while the user is simultaneously watching or reviewing another program. A preferred embodiment of the invention accepts television (TV) input streams in a multitude of forms, for example, National Television Standards Committee (NTSC) or PAL broadcast, and digital forms such as Digital Satellite System (DSS), Digital Broadcast Services (DBS), or Advanced Television Standards Committee (ATSC). The TV streams are converted to an Moving Pictures Experts Group (MPEG) formatted stream for internal transfer and manipulation and are parsed and separated it into video and audio components. The components are stored in temporary buffers. Events are recorded that indicate the type of component that has been found, where it is located, and when it occurred. The program logic is notified that an event has occurred and the data is extracted from the buffers. The parser and event buffer decouple the CPU from having to parse the MPEG stream and from the real time nature of the data streams which allows for slower CPU and bus speeds and translate to lower system costs. The video and audio components are stored on a storage device and when the program is requested for display, the video and audio components are extracted from the storage device and reassembled into an MPEG stream which is sent to a decoder. The decoder converts the MPEG stream into TV output signals and delivers the TV output signals to a TV receiver. User control commands are accepted and sent through the system. These commands affect the flow of said MPEG stream and allow the user to view stored programs with at least the following functions: reverse, fast forward, play, pause, index, fast/slow reverse play, and fast/slow play. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

65. 6,253,241 Chaddha

Chaddha discloses a cost effective method for generating and delivering scalable multimedia content targeted at specific end user(s) via client computers coupled to servers by a diverse computer network which includes local area networks (LANs) and/or wide area networks (WANs) such as the internet. In one embodiment in which the server is billed for network bandwidth consumed, upon receiving an end user request for multimedia content, the server computes the likelihood of patronage. Indicators useful for estimating the likelihood of patronage include regularity of patronage, income history, credit worthiness, age, hobbies, occupation and marital status. A cost effective bandwidth is selected for delivering the requested content. Such an arrangement is advantageous because the content is delivered to end user at a bandwidth corresponding to the probability of consummating a sale. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

66. 6,263,501 Schein et al.

Schein et al. discloses systems and methods for providing television schedule information to a viewer, and for allowing the viewer to link, search, select and interact with information in a remote database, e.g., a database on the internet. The television schedule information can be displayed on a variety of viewer interfaces, such as television screens, computer monitors, PCTV screens and the like. The television schedule information may be stored on the viewer's computer, television, PCTV, or a remote server (e.g., a website), or the television schedule information may be downloaded from a remote database to the viewer's computer, television or PCTV. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

67. 6,266,814 Lemmons et al.

Lemmons et al. discloses interactive program guide systems and related processes which can automatically tune a television, or program a VCR, based on program selections made from program schedule information displayed on a television or other suitable video monitor. The interactive program guide is preferably implemented using a microprocessor-controlled set-top box that is coupled to the viewer's television set. The set-top box receives program schedule information and software from a headend telecasting center. Preferably, program schedule information for the current day and at least six subsequent days is stored in a memory within the set-top box. The interactive program guide provides a display mode for allowing the viewer to apply a restrictive search selection criterion and a nonrestrictive sort attribute to the program schedule information. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

68. 6,269,394 Kenner et al.

Kenner et al. discloses a video clip storage and retrieval system whereby video clips, stored locally and/or at a more remote location, can be requested and retrieved by a user at the user's multimedia terminal. When the user requests a desired video clip, the request is processed by a primary index manager ("PIM") via a Local Search and Retrieval Unit ("SRU"). Before the message is communicated to the PIM, the local SRU checks its own storage to see whether the requested video clips are available locally. If some of the video clips are local, the local SRU still forwards the request to the PIM so that the PIM may determine specific video clip usage. The PIM determines the extended SRU where the audio-visual data is stored and passes this information to a Data Sequencing Interface ("DSI"). The DSI collects the video clips and downloads the clips to the user's terminal. The user may then view, copy, or print the video clip as desired. In a preferred embodiment, a distributed digital video clip delivery system, according

to the invention, provides video clips stored at local and/or remote locations, which can be requested from the Internet and retrieved at the user's multimedia terminal. When the user requests a desired video clip shown on a Web page, the request is diverted to a primary index manager ("PIM"). The PIM attempts to locate the closest server containing the requested clip, from which the download is completed. The system further includes means for uploading and distributing clips to geographically diverse servers, dynamic load balancing, subscription management mechanisms, and protection means to discourage unauthorized duplication of video clips. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

69. 6,275,989 Broadwin et al.

Broadwin et al. discloses a system and method for displaying still video images related to video content in an interactive broadcast television system. The system and method of the present invention may also be used for simulating an Internet home page on an interactive television system. The present invention thus supports hyperlinked web-like navigational capabilities in an interactive television system. According to the method of the present invention, the video delivery system provides or broadcasts one or more audio/video channels each comprising video content and also provides or broadcasts at least one still image channel comprising a plurality of still video images, preferably MPEG-2 compressed still images. The user or viewer can select options displayed on the television screen to view desired information. When the set top box receives user input selecting an option to view one of the linked still images, the set top box captures the requested image from the still image broadcast channel, stores the image in memory, and displays the captured still video image corresponding to the selection. The still image being displayed may have associated interactive program content for displaying further selections, wherein these selections may be for viewing other images or content, for ordering information, or purchasing products. The user can thus selectively navigate between the video content and stills in a web-like hyperlinked fashion. In one embodiment, when a user is navigating through still images, the television program or video content which was being viewed is displayed in a small window overlaid on the still image being displayed. Also, when the set top box captures a requested image from the still image broadcast channel, the set top box preferably also pre-caches or pre-loads other related still images based on the probability that these related images will be subsequently requested by the user. The invention also includes an embodiment which provides user requested still images "on demand" on a dedicated "search" channel. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

70. 6,278,837 Yasukohchi et al.

Yasukohchi et al. discloses a multichannel recording and reproducing apparatus which includes: an input and output circuit; a buffer for temporally storing multichannel of video data through

inputting and outputting circuit; a disc unit for storing the video data; a disc interface; a user interface circuit for receiving recording and reproducing commands and a corresponding file name from a user; a control circuit responsive to the user interface for obtaining one of N video channel circuits of the input and output circuit for inputting and outputting video data and receiving recording and reproducing commands; a filing circuit controlling files and determining first and second address data of the disc unit according to the recording and reproducing commands respectively; an access control circuit for accumulating the recording and reproducing commands and supplying each of the accumulated recording and reproducing commands when the disc interface is in a non-operating condition with priority provided to either of the recording or reproducing command according to priority data. The inputting and outputting circuit may include a digital satellite broadcasted video data receiver and a separator for separating the multiplexed digital satellite broadcasted video data into a plurality of sets of digital video data. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

71. 6,289,165 Abecassis

Abecassis discloses a method of, and a system capable of, playing at least a portion of at least one presentation segment, such as a camera angle segment, from a set of interleaved presentation segments included within a video, the method comprising the steps of, and the system comprising preferencing, processing, random accessing, and buffering means for, responsive to segment information, a preestablished content preference including a presentation preference and a preference for a duration of a portion of a presentation segment, sequentially and seamlessly playing a portion, at least a portion, and/or the substantial entirety of a presentation segment from said set of interleaved presentation segments; receiving, during said playing of a presentation segment, a change in said presentation preference; successively playing in a randomized looped fashion, responsive to said segment information and said change in said presentation preference, at least a portion, a portion, and/or the substantial entirety of another presentation segment from said set of interleaved presentation segments; and wherein a playing of at least one portion of a presentation segment is skipped in response to the preestablished content preference. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

72. 6,295,646 Goldschmidt Iki et al.

Goldschmidt Iki et al. discloses a graphical user interface (GUI) including a first window that displays video data of a first entertainment selection from a first entertainment selection source. A first area, proximate to the first window, displays entertainment system data that corresponds to the first entertainment selection. The GUI includes a second window that displays video data of a second entertainment selection from a second entertainment selection source. A second area, proximate to the second window, displays entertainment system data that corresponds to the second entertainment selection. **This reference does not disclose** a method of broadcasting

movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

73. 6,308,204 Nathan et al.

Nathan et al. discloses a method for communication between a central server and a computerized juke-box which operates in a conference mode, including: sending a header before any transaction, which includes the identity of the destination together, the identity of the emitter, and the size of the packets; responding from the server in the form of a data packet, each packet sent by the server being encoded using the identification code of the juke-box software; and receiving a data packet by the juke-box, which decodes the packet, simultaneously performs a check on the data received by the CRC method and sends an acknowledgment of receipt to the server indicating the accuracy of the information received, to allow it to prepare and send another packet to the juke-box. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

74. 6,310,886 Barton

Barton discloses a method and apparatus for efficiently managing the allocation of available data capacity on a physically shared digital network among devices connected to that network is disclosed. Also disclosed is a method and apparatus for managing the ongoing timely movement of data on the shared network such that precise long-term data rates are achieved between attached devices with minimal additional buffering. The invention further comprises a method and apparatus which allows the use of any remaining network capacity for non time-critical data movement without the need for centralized access management. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

75. 6,314,575 Billock et al.

Billock et al. discloses a telecasting service that offers video programs upon viewer demand, and which includes an interactive interface for facilitating viewer selection of video programs. The interactive interface allows the viewer to scan through a list of video programs available on the demand telecasting service. The interactive interface also provides the viewer with still images, full-motion previews, and textual descriptions of the available programs. The demand telecasting service distinguishes subscribers from non-subscribers, and provides an interactive facility for allowing non-subscribers to subscribe to the system. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

76. 6,317,885 Fries

Fries discloses an interactive entertainment and information system using a television set-top box, wherein pages of information are periodically provided to the set-top box for user interaction therewith. The pages include associated meta-data defining active locations on each page. When a page is displayed, the user interacts with the active locations on the page by entering commands via a remote control device, whereby the system reads the meta-data and takes the action associated with the location. Actions include moving to other active locations, hyperlinking to other pages, entering user form data and submitting the data as a form into memory. The form data may be read from memory, and the pages may be related to a conventional television program, thereby providing significant user interactivity with the television. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

77. 6,320,588 Palmer et al.

Palmer et al. discloses an apparatus and method for storing and retrieving synchronized audio/video "filmclips" to and from a data file of a multimedia computer workstation includes a storage means for a workstation to store audio and video data as digital data packets to the data file, and retrieval means for the workstation to retrieve audio and video data from the data file. The video data is presented as an image on the display of the workstation, while the audio data is sent to either amplified speakers or headphones. An audio data stream is stored to the data file such that the audio data can be retrieved from the data file and reconstructed into a continuous audio signal. The video data is stored to the data file such that each frame of video data is inserted into the stored audio data stream without affecting the continuity of the audio signal reconstructed by the workstation. Timing information is attached to each frame of video data stored to the file, and indicates a point in the continuous audio data stream which corresponds in time to the frame of video data. A synchronizer displays a frame of video data when the point in the audio data stream, corresponding to the timing information of the retrieved video frame is audibly reproduced by the workstation. The invention also features a video teleconferencing "answering machine" which allows a user to leave an audio/video "filmclip" message on another workstation. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

78. 6,327,418 Barton

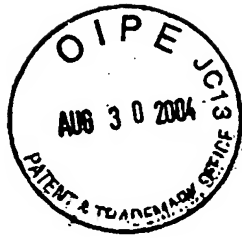
Barton discloses a continuous stream of formatted digital data, such as a video segment, audio segment, or information stream, appears to be a fixed length segment under certain circumstances, defining a virtual segment within the continuous stream which moves forward in time in synchrony with the continuous stream. The virtual segment thus defined can be explored in a non-linear fashion at arbitrary playback rates. For instance, concepts such as rewind, pause,

frame advance, and fast forward become meaningful even though the continuous stream never ceases. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

79. WO 01/82625 Hunter et al.

Hunter et al. discloses a system that blanket transmits video/audio content such as movies (for example, via satellite downlink transmission) to each customer's recording, storage and playback system. Customers may preselect from a list of available movies or other content in advance using an interactive screen selector, and pay for the video/audio content that is actually viewed. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

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DISCUSSION OF REFERENCES

Please note that this discussion of the references is not an admission that the references are in fact prior art to the invention, and Applicant expressly reserves the right to challenge any particular references discussed herein on the ground that it does not qualify as prior art per se.

This reference does not disclose a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

1. US 4,768,087 Taub et al.

Taub discloses a system for distributing educational information in digital form to a plurality of schools simultaneously transmits the information via a satellite (15) to FM stations (18) which retransmit to schools having receivers for receiving the information and a main computer (101) for storing the information. Access to the information is subsequently provided to a plurality of students via classroom computers (111) and individual terminals (121). Usage and performance data is automatically stored in the main computer (101) and sent to the sender by dial-up modem (105) to keep track of usage and to permit billing usage and royalty charges. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

2. 4,908,713 Levine

Levine discloses a system for programming the automatic operation of a video recorder over an extended time period using an associated television receiver as a display device for alphanumeric messages to the operator to provide a self-explanatory, interactive programming routine. The video recorder system includes a digital memory, a real time digital clock, and an alphanumeric character generator, all connected to a central digital controller. A keypad allows the operator to initiate a programming routine in which previously stored programming messages are called up from memory and generated on the TV receiver's display tube using the character generator. The operator's responses entered via the keypad are stored in the memory and are called up at future times to generate control signals for the video recorder. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

3. 5,559,549 Hendricks et al.

Hendricks discloses an expanded television program delivery system which allows viewers to select television and audio program choices from a series of menus. The primary components of the system include an operations center, a digital cable headend, and at least one set top terminal having a remote control. The system allows for a great number of television signals to be

transmitted by using digital compression techniques. A combined signal is transmitted over satellite to a cable headend, which may modify the combined signal for changes or additions in programming or menu content. The combined or modified signal is subsequently distributed to individual set top terminals in the cable network. Menus are partially stored in a set top terminal in each subscribers home and may be reprogrammed by signals sent from the operations center or headend. Numerous types of menus may be used, incorporating information included within the video/data signal received by the set top terminal. A remote control unit with icon buttons allows a subscriber to select programs based upon a series of major menus, submenus, and during program menus. Various data gathering and analysis techniques are used to compile programs watched information that in turn is used in packaging programs, customizing menu selections, targeting advertisements, and maintaining account and billing information. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

4. 5,572,442 Schulhof et al.

Schulhof et al. discloses a distribution system for audio program materials including a portable audio storage and retrieval device that is programmable from a high speed data transfer system, and that includes a high-capacity data storage medium, a base control interface for identifying and accepting program material, a mobile control interface for displaying the identity of recorded material for playback selection, a recording mechanism for accepting very high speed digital data from an external source at rates faster than real time, and a playback mechanism for retrieving the stored data from the storage medium and for converting the data into audio signals for playback. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

5. 5,592,551 Lett et al.

Lett et al. discloses a subscription television system that transmits a plurality of television signals to a plurality of subscribers. The television signals include pay-per-view programs (purchased by feature) or near-video-on-demand programs (purchased for a period of time for unlimited viewing) that are provided only to subscribers that purchase the programs. Data representing an electronic programming guide is also transmitted. The electronic programming guide can be displayed by a subscriber terminal at the subscriber's location. The electronic programming guide is a grid listing television programs by date, time and channel. A subscriber can select programs for watching or recording from the electronic program guide. Moreover, the subscriber can purchase pay-per-view or near-video-on-demand programs from the electronic programming guide. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

6. 5,596,373 White et al.

White et al. discloses an innovative but easy to use on-line program list to provide the user of a multiple channel television broadcast system a wealth of programming information in a simple format that is easy to understand. The guide enables the user to easily select a particular program to watch or to watch in the future. Unlike prior art television guides, the present invention presents a program list that is oriented according to the program instead of the channel. In particular, the program list provides program information and the times the program is broadcasted the displayed timeframe. This is particularly useful for viewing in one simple and easy-to-read format the start times of a pay-per-view program, which may, for example, be broadcasted every 1/2 hour over a variety of channels. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

7. 5,619,249 Billock et al.

Billock et al. discloses a telecasting service that offers video programs upon viewer demand, and which includes an interactive interface for facilitating viewer selection of video programs. The interactive interface allows the viewer to scan through a list of video programs available on the demand telecasting service. The interactive interface also provides the viewer with still images, full-motion previews, and textual descriptions of the available programs. The demand telecasting service distinguishes subscribers from non-subscribers, and provides an interactive facility for allowing non-subscribers to subscribe to the system. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

8. 5,644,714 Kikinis

Kikinis discloses a video jukebox service having a world-wide array of file servers interconnected by data links and having video input apparatus. Each file server has a plurality of connected clients. Video clippings input at the video input apparatus are shared with the other file servers and stored in a database at each file server. Clients are notified of availability of video clippings, and clippings are downloaded to client stations on demand. In a preferred embodiment, the file server network is a toriodal arrangement, and client communication nodes equal in number to the number of file servers are interconnected in a toroidal fashion as well. Individual client stations are connected to individual ones of the client communication nodes, with the overall network in the form of nested toroids. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

9. 5,648,824 Dunn et al.

Dunn et al. discloses a video control user interface for use in an interactive television system. The video control user interface includes a remote control handset with a multi-purpose, multi-direction actuation pad and a set-top box configured to operate in different modes, including a movie-on-demand mode. In this mode, the set-top box receives digitally transmitted video data streams of a selected movie from a centralized head end server. During display of a video movie, the set-top box can cause, at the viewer's request, the television to display an icon representing a physical layout of the actuation pad on the remote control handset and one or more symbols arranged at locations relative to the icon. The symbols relate to shuttle controls for controlling viewing of the video movie. This user interface presents an intuitive visual mapping of the shuttle controls about the depicted icon onto physical actuation positions of the multi-direction pad on the remote control handset. When the viewer wishes to change the viewing mode (such as from "play" to "pause"), the viewer simply depresses the pad at an actuation position that corresponds to a desired shuttle control symbol arranged at approximately the same location relative to the pad-resembling icon that is displayed on the screen. This user interface provides intuitive video control using a multi-purpose actuator, thereby eliminating the need for dedicated shuttle control buttons on the remote control handset. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

10. 5,659,350 Hendricks et al.

Hendricks et al discloses an operations center for television entertainment systems that provides television programming to consumer homes. The Operations Center organizes and packages television programming and program information for delivery to and from consumer homes. The Operations Center includes a computerized packaging system for creating a program control information signal. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

11. 5,675,390 Schindler et al.

Schindler et al. discloses an entertainment system having a personal computer as the heart of the system with a large screen VGA quality monitor as the display of choice. The system has digital satellite broadcast reception, decompression and display capability with multiple radio frequency remote control devices which transmit self identifying signals and have power adjustment capabilities. These capabilities are used to provide context sensitive groups of keys which may be defined to affect only selected applications running in a windowing environment. In addition, the remote control devices combine television and VCR controls with standard personal computer keyboard controls. A keyboard remote also integrates a touchpad which is food contamination resistant and may also be used for user verification. Included in the system is the ability to recognize verbal communications in video signals and maintain a database of such text

which is searchable to help identify desired programming in real time. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

12. 5,684,918 Abecassis

Abecassis discloses a video-on-demand and communications system, the enhancements comprising the automatic integration of the video and communication services delivered to a viewer. Specifically, during the viewing of a video, when a phone call, audio or audio/video, is received, the delivery of the video is automatically paused in response to the viewer accepting the call. Upon completion of the call, the delivery of the video is automatically restarted at the point placed on hold, at some pre-defined amount of time prior to the pausing of the video, or at a suitable prior point in the video. When the video being delivered is a content-on-demand video, the video map identifies the beginning point of the segment in which the pause occurred thus automatically identifying a suitable prior point in the video to restart the delivery of the video. By automatically replaying the segment in which the pause occurred, the viewer re-engages the video without the loss of continuity. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

13. 5,701,152 Chen

Only one or only a few channels are sent at a time from curbside circuitry located in a curbside box, via a link such as either a coaxial or a fiber cable, into a customer's home TV set or personal computer. However, many more than a few channels are delivered to the curbside box from a central office or a central bank of paid video-movies to be selected by the customers. The curbside box serves a multitude of homes, a separate (narrow-band) cable running to each home from the (same) curbside switch. Each channel can be a free radio or free TV channel, a stored or an on-line newspaper pay channel, or a pay TV channel, or a pay-per-view channel. Requests from each TV set in each home (e.g., initiated by a hand-held remote control infra-red sending device) can be sent to the curbside circuitry from the home along a link such as a wire or along the same curbside-to-home cable itself. Storage of billing information with respect to each customer is accomplished by a billing recorder located in the curbside box. A relatively short link connects this billing recorder to a junction in the link that carries the request signals to the curbside box. The billing recorder has registers that record the history of each customer's requests for access to each channel. The billing recorder is provided with circuitry responsive to remote billing interrogation signals sent by one or more remote billing centers. In response to these remote billing interrogation signals, the billing recorder sends the records of the customers to the remote billing center. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

14. 5,710,605 Nelson

Nelson discloses a universal remote control unit for controlling a television and videocassette recorder including a data input mechanism securable to a telephone line for receiving signals from an external supplier representing television programing schedule items; a display mechanism for displaying television programing schedule items and television and videocassette operating functions in a hierarchy of textual and scrollable selection lists; a user-operable selector mechanism for allowing a user to scroll through the lists and then select television programing schedule items or television and videocassette functions; another user-operable selector mechanism for allowing a user to generate billing signals signifying a payment to be made in response to the receipt of the television programming schedule items from the external supplier; a data output mechanism securable to a telephone line for transmitting the billing signals representing a payment made to the external supplier; a processor mechanism for controlling operations; and a transmitter mechanism responsive to the processor mechanism for generating and transmitting via free space remote scheduling signals for subsequent receipt by the television and videocassette recorder for scheduling and controlling each of their operations. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

15. 5,719,983 Henderson et al.

Henderson et al. discloses a method and apparatus for storing data on a storage device in which the storage device has a plurality of different zones. Each zone in the storage device has a different transfer rate. The present invention places a video having the highest demand in a zone having the greatest transfer rate, wherein the data transfer of data for that video is maximized. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

16. 5,721,815 Ottesen et al.

Otteson et al discloses a method and apparatus for effectuating transmission, reception, and processing of source program signals representative of a multimedia program between a remote multimedia server and a plurality of local set-top control systems are disclosed. The multimedia server processes stored digitally compressed multimedia programs preferably by parsing a selected multimedia program into a customized series of discrete program segments, and transmitting the compressed program segments to a local set-top control system, which buffers and decompresses the compressed program segments for presentation on a local display monitor. A local set-top control system preferably includes a direct access storage device adapted to buffer a predetermined number of compressed program segments received from a multimedia server, some of which may be non-sequentially ordered and others of which may be sequentially ordered. A novel formatting methodology provides for the sequential presentation of the program segments asynchronously distributed on one or more data storage disks disposed in the direct access storage device. A user-definable presentation control window for performing local

VCR-type presentation control functions for the portion of a multimedia program buffered in the direct access storage device is also provided through the novel formatting methodology. The novel formatting methodology also provides concurrent presentation and buffering of program segments received from the multimedia server for on-demand viewing of a selected multimedia program. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

17. 5,724,646 Ganek

A system, method and apparatus for Video-on-demand (VOD) satisfying the desire of 'surfers'. The process entails a server operating in a standard Near-Video-on-demand (NVOD) mode, whereby it repeatedly transmits multiple copies of each program on separate channels. Each copy is delayed by a staggered time interval. The server also repeatedly transmits a beginning portion of each NVOD program of a duration up to the staggered time interval. The invention provides a way to fulfill a VOD user requests asynchronous with the start of a NVOD transmission but which still makes primary use of the NVOD transmission for that requestor. The invention further advantageously provides fixed asset utilization in a predictable manner. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

18. 5,727,065 Dillon

Dillon discloses an electronic document delivery system and method in which a broadcast center periodically sends a "catalog" of available documents to a receiving computer, thereby allowing a user to browse through the available documents without having to access the broadcast center. The documents are transmitted as packets, and the packets are decrypted as soon as they are received, eliminating the need to store both an encrypted and an decrypted version of the documents at the receiving computer. The receiving computer periodically receives information allowing it to decrypt received documents and to encrypt billing information for the receiving computer. The invention is not limited to text-only documents and can receive all types of documents, such as software, images, text, and full-motion video. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

19. 5,734,853 Hendricks et al.

Hendricks et al. discloses a viewer interface for a television program delivery system. The innovation relates to methods and devices for viewer pathways to television programs. Specifically, the interface involves hardware and software used in conjunction with a television at the viewer home to create a user friendly menu based approach to television program access. The device is particularly useful in a program delivery system with hundreds of programs and a

data signal carrying program information. The disclosure describes menu generation and menu selection of television programs. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

20. 5,790,937 Gütle

Gütle discloses multi-media documents in the form of digital signals, which are fed into a multiplexer/coder by several sub-channels, which are time multiplexed. A control signal is added and the combined signal is modulated into a transmission signal at the transmitter side. At the receiver side, the transmission signal is processed up to the output of a tuner like a normal signal for television. After the tuner, the signal is demodulated, digitized, demultiplexed, and the control information of the control signal is extracted from the bit stream so that by monitoring said control information signal provided with the transmission, a transmission channel decoder enables a multi-media player to read a distributed document according to the program of the user. Alternately, the signal is directly stored by a multi-media player and the stored signal is demodulated, digitized, demultiplexed and the control information of the control signal is extracted from the bit stream so that by monitoring the control information signal provided with the transmission, a transmission channel decoder controls a reproduction device for reproducing a distributed document according to the programming of the user. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

21. 5,798,785 Hendricks et al.

Hendricks et al. discloses a novel reprogrammable set top terminal for a television program delivery system which suggests programs for viewing. The invention relates to methods and apparatus for reprogramming set top terminals, and selecting and displaying programs to suggest to subscribers for viewing. The invention is particularly useful in television program delivery systems with hundreds of channels of programming, a menu driven program selection system, and a program control information signal which carries data and identifies the available program choices. Specifically, the invention relates to remote reprogramming of terminal memory and the gathering and analysis of data for selecting programs to suggest to a subscriber. The invention is a terminal which includes a circuit for receiving incoming signals, a processor, memory, and a circuit to generate menu screens for display on a TV or monitor. Various data gathering and analysis techniques are used to customize selection of programs for display on a menu. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

22. 5,828,420 Marshall et al.

Marshall et al. discloses a system interactively controlled by a TV viewer remote which superimposes portions of a scroll program guide over a basic programming signal for display on the viewer's display screen. A tuner has an input for receiving TV signals in a plurality of cable channels and an output for passing a signal of any selected one of said channels. A computer has an input for receiving any of a plurality of control signals from the TV viewer remote and an output for controlling the tuner to pass the signal of the selected one of the channels in response to one of the plurality of control signals from the TV viewer remote. The computer receives and stores a scroll input picture image signal containing local program guide data and generates a scroll output picture image signal consisting of at least a portion of the scroll input picture image signal. A combiner superimposes output picture image signal over the passed signal to provide a display signal for input to the viewer's display screen. The computer is responsive to control signals from the remote to cause the combiner to change the weight of the output picture image signal in relation to the passed signal. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

23. 5,850,218 La Joie et al.

LaJoie et al discloses a system and method for providing a full service cable television system. The cable system incorporates a digital and analog transmission architecture capable of delivering a high number of high quality television programs, advanced cable services, and online services to a subscriber's home. The cable system comprises a cable headend, at least one fiber transport, at least one distribution hub, at least one hybrid fiber coax plant, and a plurality of set-top terminals. Programs and services are transmitted to the set-top terminals in both digital and analog formats to maintain downward compatibility with existing systems. The set-top terminal incorporates a central processing unit, a unified memory architecture, a memory management unit, communications circuitry, I/O control circuitry, and audio and video output circuitry. Through these components the set-top terminal provides advanced cable services such as a comprehensive channel navigator, an interactive program guide, Impulse Pay-Per-View activation, Near-Video-On-Demand and Video-On-Demand programming, and advanced configuration controls. The set-top terminal also provides online services such as World Wide Web browsing, Internet E-Mail, and Home Shopping. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

24. 5,870,150 Yuen

Yuen discloses pre-programming indicia listed on reverse side of a program schedule page which allows a timer pre-programming feature on a television or, in particular, a video cassette recorder (VCR) to be programmed. The control indicia are decoded by a decoder built into either the video cassette recorder or controller, which convert the indicia into channel, date, time and

length information for timer preprogramming. The channel, date, time and length information is communicated to the VCR to automatically activate the VCR to record a given television program with the corresponding channel, date, time and length. Alternately, the channel, date, time and length information is decoded directly in the controller and appropriately sent to the VCR for recording a program. The program schedule pages with control indicia utilized with the present invention can be printed in advance and used with a VCR or controller with the decoding. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

25. 5,873,022 Huizer et al.

Huizer et al relates to the reception of MPEG encoded television signals from a Video-On-Demand server (1) via a network (3). Non-linear playback functions such as 'pause' and 'resume' require a very accurate control of the bit stream, taking account of typical network aspects such as network latency. The receiver (2) comprises a latency buffer (24) for storing the signal delivered while the reproduction is stalled. The pause and resume commands from the user are not forwarded to the server until the latency buffer reaches a predetermined fullness. This allows the receiver to resume flawlessly signal reproduction after a pause. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

26. 5,877,755 Hellhake

Hellhake discloses a method and apparatus for facilitating interactive television. The method for facilitating interactive television comprises the following steps: accessing an interactive program; executing said interactive program; and providing an end user with a set of coded instructions which may be transmitted upstream. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

27. 5,886,746 Yuen et al.

Yuen et al discloses an apparatus and method for selecting channels on a television system by theme. A remote controller for the television system includes a plurality of theme keys, each theme key corresponding to one theme of a plurality of themes, apparatus for entering channel indicators corresponding to each theme, apparatus for storing the entered channel indicators corresponding to each theme, apparatus for accessing and transmitting to the television system each channel indicator corresponding to a first theme of the plurality of themes in sequence to control channel selection for the television system, if a first theme key corresponding to the first theme is pressed, apparatus for pausing a set period of time after accessing and transmitting a channel indicator before continuing to access and transmit channel indicators corresponding to

the first theme in sequence, and apparatus for stopping the apparatus for accessing and transmitting from accessing and transmitting each channel indicator corresponding to a first theme of the plurality of themes in sequence, if the first theme key is pressed again. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

28. 5,909,638 Allen

Allen discloses a system for capturing, storing and retrieving movies recorded in a video format and stored in a compressed digital format at a central distribution site. A plurality of remote distribution locations are connected through fiber optic connections to the central distribution site. The remote sites maybe of one of two types: a video retail store or a cable television (CATV) head end. In the case of a video retail store, VHS videotapes, other format videotapes or other video media may be manufactured on-demand in as little as three to five minutes for rental or sell-through. A totally automated manufacturing system is described in which the customers can preview and order movies for rental and sale from video kiosks. The selected movie is then either retrieved from local cache storage or downloaded from the central distribution site for manufacturing onto a blank or reused videotape. One feature of the system is the ability to write a two-hour videotape into a Standard Play (SP) format using a high speed recording device. A parallel compression algorithm based on the MPEG-2 format is used to compress a full-length movie into a movie data file of approximately four gigabytes of storage. The movie data file can be downloaded from the central site to the remote manufacturing site and written onto a standard VHS tape using a parallel decompression engine to write the entire movie at high speeds onto a standard VHS tape in approximately three minutes. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

29. 5,945,987 Dunn

Dunn discloses an interactive entertainment network system having a video-on-demand (VOD) application which enables viewers to select criteria for grouping various video content programs (e.g., movies, games, TV shows, etc.) into manageable sets for convenient review. Once grouped, the previews or "trailers" for the set of programs are displayed. The VOD application permits the viewer to browse the trailers at their own rate, skipping forward to the next trailer or backward to the previous trailer. If the viewer settles on a particular program, the VOD application also allows the user to rent the program immediately from the trailer being displayed on their television set, without returning to a menu or other order screen. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

30. 5,953,485 Abecassis

Abecassis discloses a video method and system which maintains a transmission of an audio of a video during a viewer controlled freezing, slowing, and/or zooming of the transmission of the video component of the video by automatically selecting, adjusting audio levels, looping, and producing audio effects, from a plurality of audio elements of the video, such as a foreground and background audio elements, in response to the viewer control of the transmission of the video component. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

31. 5,956,716 Kenner

Kenner discloses a video clip storage and retrieval system whereby video clips, stored locally and/or at a more remote location, can be requested and retrieved by a user at the user's multimedia terminal. When the user requests a desired video clip, the request is processed by a primary index manager ("PIM") via a Local Search and Retrieval Unit ("SRU"). Before the message is communicated to the PIM, the local SRU checks its own storage to see whether the requested video clips are available locally. If some of the video clips are local, the local SRU still forwards the request to the PIM so that the PIM may determine specific video clip usage. The PIM determines the extended SRU where the audio-visual data is stored and passes this information to a Data Sequencing Interface ("DSI"). The DSI collects the video clips and downloads the clips to the user's terminal. The user may then view, copy, or print the video clip as desired. In a preferred embodiment, a distributed digital video clip delivery system, according to the invention, provides video clips stored at local and/or remote locations, which can be requested from the Internet and retrieved at the user's multimedia terminal. When the user requests a desired video clip shown on a Web page, the request is diverted to a primary index manager ("PIM"). The PIM attempts to locate the closest server containing the requested clip, from which the download is completed. The system further includes means for uploading and distributing clips to geographically diverse servers, dynamic load balancing, subscription management mechanisms, and protection means to discourage unauthorized duplication of video clips. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

32. 5,973,684 Brooks et al.

Brooks et al. discloses an apparatus and method for selectively executing a resident terminal application and an information provider-specific application stored in a digital entertainment terminal adapted to decode broadband data signals from a video dial tone network. The digital entertainment terminal stores the resident terminal application related to native operations including network communications in a nonvolatile memory, and stores the information provider-specific applications used for accessing the information provider's services in a

dynamic memory. The digital entertainment terminal is adapted to suspend execution of one of the resident application and the information provider-specific application and begin execution of the other application in response to a toggle input from a user's remote control, and resume execution of the suspended application in response to a second toggle input from the user's remote control. Decoding of received broadband signals from the video dial tone network is based upon stored connection block descriptors, and is thus independent of the suspension of one of the applications. Thus, a user may pause an interactive session to scan broadcast channels, or to initiate a second interactive session. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

33. 5,988,078 Levine

Levine discloses a personal computer used to assist in the selection of television programs to be recorded at future times and to control a video tape recorder to implement the selected recordings. An application program allows the computer to receive data representing a schedule of future programs. The operator can perform data base operations on the data to obtain listings of programs of particular interest. A program to be recorded is selected by moving a cursor into position with the display of the program listing on the computer. An output device generates infrared signals to control the video tape recorder and a cable box to tune and record a selected program. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

34. 5,995,092 Yuen et al.

Yuen et al. discloses a system for sending selected up-to-date information in a television signal from a sender located at a network head-end or television station to a receiver co-located with a television viewer. The television viewer subscribes to an information service by telephoning a customer service center affiliated with the sender. The customer service center informs the sender of the subscription and the sender sends data packets of information individually targeted for the television viewer in the vertical blanking interval of the television signal. The television viewer's receiver accepts the data packets identified for it and on viewer command displays information included therein on the television screen. The data packets may include information relating to news, sports results, financial market updates, television programming guides, and the like. Information is displayed to the viewer in a menu format, allowing for ease of use in controlling presentation of various types of information. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

35. 5,995,708 Corey

Corey discloses a method and system for transmitting audio and video data to a remote viewing station. The method includes the steps of receiving a signal at a control station representing a request for the audio and video data. The method further includes determining whether the requested data is stored at a mass storage facility or at an active line storage unit. If the requested data is stored at the mass storage facility, the method includes downloading and storing the data at the active line storage unit. Finally, the method includes the step of transmitting the stored data from the active line storage unit to the remote viewing station. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

36. 6,002,394 Schein et al.

Schein et al. discloses systems and methods for providing television schedule information to a viewer, and for allowing the viewer to link, search, select and interact with information in a remote database, e.g., a database on the internet. The television schedule information can be displayed on a variety of viewer interfaces, such as televisions screens, computer monitors, PCTV screens and the like. The television schedule information may be stored on the viewer's computer, television, PCTV, or a remote server (e.g., a website), or the television schedule information may be downloaded from a remote database to the viewer's computer, television or PCTV. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

37. 6,018,765 Durana et al.

Durana et al. discloses a video-on-demand system providing multiple channels of video and audio on which video programs can play simultaneously and independently. The data server has mass storage containing video programs in the form of compressed digital multimedia data. The data server also has one or more multi-channel decoders which transfer data from mass storage, decompress the data and encode the data into standard video and stereo audio outputs. The data server also utilizes a host which provides video program control commands to the decoders in a manner which emulates a video tape deck. **This reference does not disclose** a method of broadcasting movie data and associated meta-data, automatically storing the movie data and assembling the movie data to form at least one movie, and analyzing the metadata to determine when to make the movie available for viewing.

38. 6,034,688 Greenwood et al.

Greenwood et al. discloses a user-interface system adapted to navigate through a plurality of menus is disclosed. The system comprises a display system comprising a display having a category area on a first portion of the display, the category area displaying a plurality of